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Natural Slate

THE STRUCTURAL SLATE CO.

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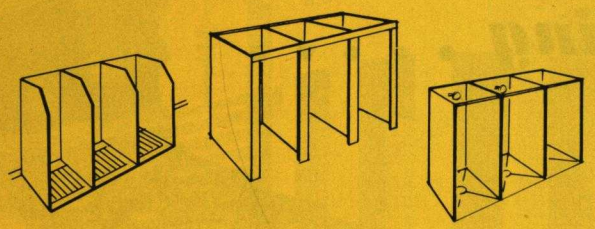
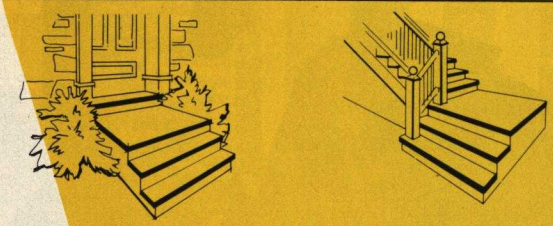
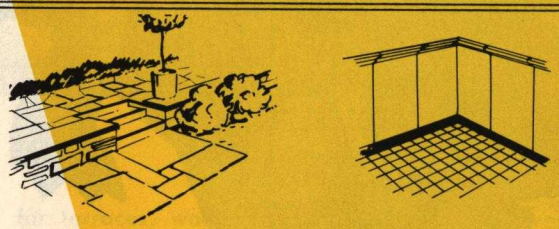
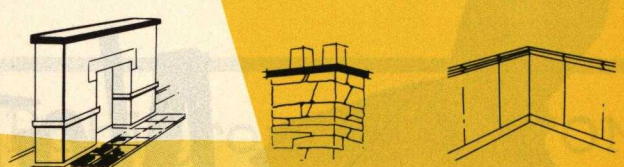
Products	Designs	Typical Uses
SHOWER STALLS, TOILET AND URINAL ENCLOSURES		For public comfort stations, industrial establishments, schools, colleges, hospitals, and in various types of public and private office buildings. *Advantages of slate for above uses:* Sanitary, tensile strength, durability.
TREADS RISERS PLATFORMS		Treads and risers for institutions, industrial and commercial buildings, churches, schools, theatres, etc. Platforms or landings, used to break the flight of stairs between floors; necessary in public buildings, and places of assembly, factories, warehouses, etc. *Advantages of slate for above uses:* Compressive strength, velvet-like grip, toughness.
INTERIOR FLOORS PATIOS WALKS		Modern decorating trend in office buildings, public buildings, churches, libraries, restaurants, hotels, schools, residences. *Advantages of slate for above uses:* sanitary, weather resistant, extremely durable, will stand long, hard wear.
SINKS, TRAYS, TOPS AND LAB EQUIPMENT		For homes, hotels, restaurants, hospitals, industrial buildings, garages, and other places where these fixtures are subjected to rough usage, acids, etc. *Advantages of slate for above uses:* Sanitary, resistance to acids, serviceability.
WINDOW SILLS, INTERIOR AND EXTERIOR		Apartment houses, schools, churches, post offices, industrial and office buildings. Hotels, hospitals and residences. *Advantages of slate for above use:* Exterior Sills permit of a wider latitude in arrangement of bond of brick or glass blocks. Promotes architectural design, and protects walls below. Interior Sills eliminate costly replacements and refinishing. Decorative and easily cleaned.
CAPS, BASES, WAINSCOTS, SPANDRELS, MANTLE SHELVES, FACING		In office buildings, public buildings, churches, libraries and schools, slate has been used without limitation for borders, wainscots, thresholds, angle coves, fireplace, mantel shelves, facings, etc. *Advantages of slate for above uses:* Tensile strength, sanitary, durability.
ROOFING		The name implies the general use of the material. Also used for damp courses, promenade decks, trim and wall lining for parapet walls.

THE STRUCTURAL SLATE COMPA

NATURAL SLATE

Types	Sizes
Toilet Enclosures—Three basic types: (A) All-slate (panels, stiles and rails). (B) Pipe, instead of slate rails above stiles; all but end-partitions and stiles supported by brass standards. (C) Same as Type B, except front stiles entirely omitted. *Urinal Stalls*—With partitions for separate bowls; without partitions for continuous urinal. *Shower Stalls*—Five standard types: (A) Slate backs, ends, partitions and floors. (B) Similar to Type A, with addition of bottom curb. (C) Similar to Type B, with stiles on either side of front. (D) Shower and separate dressing room. (E) Shower between two dressing rooms.	*Toilet Enclosures*—2'-10" x 4'-6" 2'-10" x 4'-0", 2'-8" x 4'-6", 2'-8" x 4'-0", 2'-10" x 3'-6", 2'-8" x 3'-6". *Urinal Stalls*—Standard width, 2'-0". Narrower or wider stalls, special. *Shower Stalls*—3'-0" x 3'-0", 3'-0" x 3'-6", 3'-6" x 3'-6".
1. *Treads and risers*—(A) Slate treads, with iron risers, steel supports. (B) Slate treads and risers, steel supports. (C) Slate treads, cement risers, reinforced concrete. (D) Slate treads and risers, reinforced concrete. 2. *Platforms or landings*—As required by the installation.	*Slate Treads and Platforms*—1¼" or 1½" thick, with slightly rounded edges to nosings. *Slate Risers*—1" thick. (Lengths and widths as required by their design)
Interior floor tiles, patio and walk tiles—Manufactured in a wide variety of standard designs and shapes to fit any requirements. Special layouts can be made to specifications.	Irregular shapes or rectangular flooring. Sizes to be determined by manufacturing standards. Pattern designs available.
Sinks—Straight front or bevel front, with or without high back; single or double drainboard. Special compartments for photographic and laboratory use. *Laundry Trays*—Single and double compartments, combination sinks and trays, with and without high back. Also with ledge back. *Tops*—Sink and table, desk and laboratory, fabricated to suit individual needs. *Laboratory Equipment*—Fume hoods, reagent shelving, peg boards, moisture cabinets and troughs.	*Trays*—Single, 24" long; double, 48" long, width 24", depth 14" inside. Special sizes on request. *Sinks*—Length and width as desired. Inside depth 6" high. Special sizes to meet individual needs. *Tops and Laboratory Equipment*—To meet individual needs.
Window Sills—(Exterior) slip or bevel wash for metal or wood frames. *Window Sills*—(Interior) plain, moulded, radiator recess, or window bench.	To meet specifications, generally ⅛" to 2" thick.
Slate caps, bases, wainscots, mantle shelves & facings—Manufactured in a wide variety of standard designs and shapes to fit any requirement. Special types can be made to architects' own design.	In each case, slate is cut and fitted to suit the spaces in which it is to be used. Width, length and thickness must be specified.
Roofing Slate—Standard, textural, graduated and flat roofs. The modified American slate roof, using 40 per cent less material, including nails, is now available for Home Owners of low and medium incomes.	*For sloping roof*—6" x 12" to 14" x 24". *Standard commercial thickness*—3/16". *Graduated roofs*—From ¼" to ¾" thick. *Flat roofs*—¼" to ⅜" thick (approximately 8" x 10").

Structural Characteristics

Among the chief characteristics of structural slate from the Pennsylvania quarries are its fine, even grain, its uniform color, and its cleavage or fissility, which allows it to be split into slabs of practically any thickness.

The results of tests show that slate is one of the least absorptive of Nature's products, having a mean absorption of only 174/1000 of 1% when immersed in water for 24 hours.

Slate is extremely tough and elastic, as manifested by its resistance to strain, shock, blows and the effect of settlement. Moreover, it will not contract or expand.

Further data in connection with the natural formation and quarrying of slate may be secured from Bulletin 586 of the U. S. Geological Survey.

Grading

Structural slate is produced in one quality only but is divided into two natural gradings known as "Clear Stock" and "Ribbon Stock."

About 80% of the natural slate has ribbon veinings which in no way affect its impermeability or strength. Ribbon stock is standard for structural and sanitary installations and will be furnished for such purposes unless clear stock is specified.

Color

The slate produced in the Pennsylvania district is the familiar "slate gray" color.

Finishes

Planed Surface—The marks of the planing machine are faintly indicated on this surface which is used on the under side of stair treads and wherever uniformity of finish is not essential.

Standard Sand Rubbed Finish—The result of rubbing the planed surface with sand and water on large metal disks. This finish is a smooth even surface having the faintest grain or stipple. Standard unless otherwise specified for toilet room partitions, lavatory stalls, urinals, etc.

Honed Finish—Much smoother than sand rubbed—the nearest approach to actual polish which can be given slate. Not suitable for surfaces subject to constant abrasion but desirable on vertically erected slate and residential building where the extra expense is justified.

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Industrial and Scientific Uses of Slate

USE	ADVANTAGES	TYPES	SIZES
Billiard & Pool Table Tops. Q-Ball & similar games. Quoit Boards. Outdoor Table Tennis tops.	Uniform Playing surface. Outlasts the life of the table.	All Billiard and Pocket Billiard Tables. Official Rubber Quoit Boards	To conform with manufacturer's specifications.
Laboratory Uses: Sinks — Troughs — Tops — Shelves — Pegboards — Fume Hoods.	Strength—Resistance to acids. Impermeability. Easily cleaned. Economical. A Natural Rock.	Table and desk units. Cut to fit any engineering design—For the laboratory, either industrial, school, college, or hospital.	To conform with architectural, chemical and engineering design. Also standard desk and table units.
Map Table Tops.	Can be finished to .002" tolerance on top surface of slab and will retain true level surface required for map making.	Multiplex and Kelsh Plotter tables.	To conform with table design.
Steam—water & air gauge panels. Electrical panels. Filter table tops & cabinets.	Impervious to moisture. Permanent — Sanitary — High insulating value.	Standard & special to meet all engineering requirements.	To conform with Engineer's design.
Lithographic panels, printers type setting tops, tannery table tops, candy & pastry-making tops, polishing & cutting machinery—tops for plate glass, marble, etc.	Hard—non-absorbent. Easily cleaned. Optimum service.	Standard and special designs.	To conform with Industrial and Engineering requirements.

Versatility of slate

It can be safely stated that no other natural rock has more uses than slate. The typical uses and finishes for building construction have been classified in the preceding pages, and additional uses in the industrial and scientific fields have been listed above. The Structural Slate Company will appreciate any opportunity to present additional information, data, or perform any service desired.

THE STRUCTURAL SLATE CO.

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